Cooperative Engagement Capability (CEC)

DESCRIPTION

The Cooperative Engagement Capability (CEC) system enables all CEC equipped, Anti-Air Warfare (AAW) weapon systems in a battle force to operate as a single, distributed AAW system. This is accomplished by providing timely sharing of fire control quality sensor data, correlated identification data, and AAW weapon system management status via a Data Distribution System (DDS). The data is processed independently by the Cooperative Engagement Processor (CEP) on-board each Cooperating Unit (CU) to construct a detailed rack and status database in real time to provide required remote data to and from the local AAW weapon system elements (hardware and software modified for CEC). In this manner, each CU of a battle force can operate cooperatively with the other CUs, taking advantage of diverse locations and aspect angles, various AAW system capabilities, and degrees of availability by sharing sensor data, and coordinating engagements, fire control illuminators, and AAW missiles.

PROCUREMENT PROFILE:	FY00	FY01
Quantity:	*0*	*0*

OPERATIONAL IMPACT

CEC facilitates broader air coverage of the battle force against all airborne threats. The current flexible design as an Aerostat, AWACS, or an E-2 aircraft. CEC enables land-based systems to expand the common air situational picture and facilitate a broad-based, wide-area land and air defensive posture, supportive of a joint tactical commander and Operational Maneuver from the Sea (OMFTS).

PROGRAM STATUS

Currently the CEC is in the Phase 0. Milestone I is planned for FY00. IOC is planned for FY03 with FOC in FY05.

DEVELOPER/MANUFACTURER

Hardware - Raytheon E-Systems, St. Petersburg, FL

Software - John Hopkins University Applied Physics Laboratory, Laurel, MD

CEC Systems Integration:

Hardware - NSWC, Crane, IN